

**OPTICAL FIBER INCLUDING A DIFFUSER PORTION AND
CONTINUOUS SLEEVE FOR THE TRANSMISSION OF LIGHT**

5

ABSTRACT

A novel optical fiber, and a method for its production, having a diffuser portion and continuous unitarily-constructed outer sleeve, which is adapted for the transmission of light to a treatment locale. More particularly, a medical
10 instrument has an optical fiber including a diffuser portion at a distal end wherein an alignment sleeve for the optical fiber extends uninterruptedly in a single piece from a connector for a laser light source to at least the distal end of the core of the optical fiber.